

Summary of index well data collected by the U.S. Geological Survey for selected water-quality constituents, *Equus* Beds area near Wichita, Kansas November 2001 through December 2005.

[Shallow wells are less than 80 feet deep. Deep wells are more than 81 feet deep. Water-quality criteria established by the U.S. Environmental Protection Agency (2004); mg/L, milligrams per liter; DWA, Drinking Water Advisory; SWDR, Secondary Drinking Water Regulation; mg/L as N, milligrams per liter as Nitrogen; MCL, Maximum Contaminant Level; µg/L, micrograms per liter; MCLG, Maximum Contaminant Level Goal; <, less than]

	U.S. Environmental Protection Agency (2004) Water-Quality Criteria	Shallow Index Wells				Deep Index Wells			
		Average concentration	Number of samples	Percentage of detections	Percentage of wells exceeding water-quality criteria ¹	Average concentration	Number of samples	Percentage of detections	Percentage of wells exceeding water-quality criteria ¹
Sodium, dissolved (mg/L)	20 mg/L (DWA)	84	271	99%	95%	93	273	99%	95%
Chloride, dissolved (mg/L)	250 mg/L (SDWR)	75	271	99%	5%	110	272	96%	5%
Sulfate, dissolved (mg/L)	250 mg/L (SDWR)	154	271	98%	18%	110	273	99%	13%
Nitrite plus nitrate, dissolved (mg/L as N)	10 mg/L (MCL)	3.4	271	70%	13%	0.44	273	51%	0%
Arsenic, dissolved (µg/L)	10 µg/L (MCL)	4.0	271	48%	10%	7.5	273	82%	34%
Iron, dissolved (µg/L)	300 µg/L (SDWR)	2400	271	61%	39%	1300	273	71%	45%
Manganese, dissolved (µg/L)	50 µg/L (SDWR)	270	271	73%	58%	440	273	99%	95%
Fecal Coliform bacteria (cols/100 mL)	0 cols/100 mL (MCLG)	1	271	2%	16%	1	273	1%	10%
Total Coliform bacteria (cols/100 mL)	0 cols/100 mL (MCLG)	9	271	33%	89%	3	273	18%	63%
Atrazine, dissolved (µg/L)	3 µg/L as an annual average (MCL)	0.03	66	44%	0%	<0.05	29	17%	0%
Triazine herbicide screen, dissolved, (ug/L as atrazine)	3 µg/L as an annual average (MCL)	0.13	272	14%	0%	0.1	273	2%	0%
Alachlor, dissolved, (µg/L)	2 µg/L (MCL)	0.005	66	4%	0%	0.05	29	0%	0%

¹Percentage of wells exceeding water-quality criteria were calculated by determining the average concentration of the six samples from each individual well. If the average concentration exceeded the water-quality criteria, the well was included in the percentage that exceeded water-quality criteria.

²The percentage of detections for atrazine and triazine herbicide screen were calculated if any sample from a well was detected at a concentration greater than or equal to 0.1 micrograms per liter.